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FILE COVERS 1907 - 18 Jun 2009 VOL 150 ISS 26

FILE LAST UPDATED: 18 Jun 2009 (20090618/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Arp 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CA now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s apm1 or adiponectin

173 APM1

5472 ADIPONECTIN

L1 5556 APM1 OR ADIPONECTIN

=> s l1 and polyclonal antibod?

40047 POLYCLONAL

542111 ANTIBOD?

20073 POLYCLONAL ANTIBOD?

(POLYCLONAL (W) ANTIBOD?)

L2 15 L1 AND POLYCLONAL ANTIBOD?

=> s 12 and native(w)(apm1 or adiponectin) 156938 NATIVE

173 APM1

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5472 ADIPONECTIN
            2 NATIVE(W) (APM1 OR ADIPONECTIN)
L3
            0 L2 AND NATIVE(W) (APM1 OR ADIPONECTIN)
=> s 12 and native
       156938 NATIVE
            0 L2 AND NATIVE
=> s 12 and latex
        75640 LATEX
L_5
            2 L2 AND LATEX
=> d ti ab 1-2
T.5
    ANSWER 1 OF 2 CA COPYRIGHT 2009 ACS on STN
    Determination of ***adiponectin*** in serum using a ***latex***
TΤ
    particle-enhanced turbidimetric immunoassay with an automated analyzer
AΒ
      ***Adiponectin*** is an adipose-derived hormone that plays a role in
    regulating metabolic processes such as fat partitioning and lipid and
    glucose metab. Quantification of ***adiponectin*** is useful for
    obtaining information on metabolic syndrome, but there is no rapid method
    to measure ***adiponectin*** for clin. use. The authors developed a
    rapid and sensitive ***latex*** particle-enhanced turbidimetric
    was performed on a Hitachi H7170 analyzer and evaluated for validity as a
    method to quantitate ***adiponectin*** , in parallel with the ELISA.
    Diln. tests using LTIA showed linearity from 0.25 to 30 .mu.g/mL.
    Within-run CV and total CV were obtained in the range 0.8-1.9% and
    1.1-2.0%, resp. No interference was obsd. in the testing of specimens
    contq. potentially interfering substances such as bilirubin,
    ditaurobilirubin, Hb triglyceride, rheumatoid factor, type IV collagen,
    fibronectin, and complement factor (Clq). A strong correlation between
    LTIA and ELISA was confirmed (n = 30, r = 0.990, y = 0.95x + 0.39). The
    LTIA assay is applicable to quantitating the serum concn. of
      ***adiponectin*** . This assay is more convenient and faster than ELISA
    and suitable for clin. routine anal.
    ANSWER 2 OF 2 CA COPYRIGHT 2009 ACS on STN
1.5
     ***Latex*** reagent for ***adiponectin*** analysis, and
TΙ
      ***adiponectin*** analysis method
    A ***latex*** reagent for ***adiponectin*** anal. is provided,
AB
    which comprises a suspension of ***latex*** particles carrying a
    substance (e.g., anti- ***adiponectin*** ***polyclonal***
      ***antibody*** ) capable of specifically binding with
***adiponectin***
     . Also provided is a method for ***adiponectin*** anal., which
    comprises: (1) a step for obtaining a biol. liq. potentially contq.
      ***adiponectin***; and (2) a step for contacting the biol. liq.
obtained
    in the step (1) as it is with a suspension of
                                                 ***latex***
    carrying a substance capable of specifically binding with
      ***adiponectin*** , and optically analyzing the resultant mixt. to det.
    the degree of agglutination of the ***latex*** particles. According
    to this ***latex*** reagent for ***adiponectin*** anal. and this
```

adiponectin anal. method, it is not required to dil. or pretreat

biol. liq. as a test sample beforehand, and the anal. is rapidly and conveniently performed without limiting a measurement facility.

```
=> d all 1-2
    ANSWER 1 OF 2 CA COPYRIGHT 2009 ACS on STN
    145:391809 CA <<LOGINID::20090620>>
    Entered STN: 02 Nov 2006
    Determination of ***adiponectin*** in serum using a ***latex***
    particle-enhanced turbidimetric immunoassay with an automated analyzer
    Nishimura, Ayako; Sawai, Tokio
    Division of Research and Development, Mitsubishi Kaqaku Iatron Inc.,
    1460-6 Mitodai, Tako-machi, Katori-gun, Chiba-ken, 289-2247, Japan
    Clinica Chimica Acta (2006), 371(1-2), 163-168
    CODEN: CCATAR; ISSN: 0009-8981
    Elsevier Ltd.
    Journal
    English
    9-10 (Biochemical Methods)
      ***Adiponectin*** is an adipose-derived hormone that plays a role in
    regulating metabolic processes such as fat partitioning and lipid and
    glucose metab. Quantification of ***adiponectin*** is useful for
    obtaining information on metabolic syndrome, but there is no rapid method
    to measure ***adiponectin*** for clin. use. The authors developed a
    rapid and sensitive ***latex*** particle-enhanced turbidimetric
    immunoassay (LTIA) using a ***latex*** bead-immobilized anti-
      ***adiponectin***
                         was performed on a Hitachi H7170 analyzer and evaluated for validity as a
    method to quantitate ***adiponectin*** , in parallel with the ELISA.
    Diln. tests using LTIA showed linearity from 0.25 to 30 .mu.g/mL.
    Within-run CV and total CV were obtained in the range 0.8-1.9% and
    1.1-2.0%, resp. No interference was obsd. in the testing of specimens
    contg. potentially interfering substances such as bilirubin,
    ditaurobilirubin, Hb triglyceride, rheumatoid factor, type IV collagen,
    fibronectin, and complement factor (C1q). A strong correlation between
    LTIA and ELISA was confirmed (n = 30, r = 0.990, y = 0.95x + 0.39). The
    LTIA assay is applicable to quantitating the serum concn. of
      ***adiponectin*** . This assay is more convenient and faster than ELISA
    and suitable for clin. routine anal.
      ***adiponectin*** detn serum ***latex*** particle turbidimetric
    immunoassay automated analyzer; metabolic syndrome ***adiponectin***
    serum immunoturbidimetry automatic analyzer
    Cytokines
    RL: ANT (Analyte); ANST (Analytical study)
       ( ***adiponectin*** ; detn. of ***adiponectin*** in serum using
         ***latex*** particle-enhanced turbidimetric immunoassay with
       automated analyzer)
    Blood analysis
    Human
    Immunoturbidimetry
    Metabolic disorders
                 ***adiponectin*** in serum using ***latex***
       (detn. of
       particle-enhanced turbidimetric immunoassay with automated analyzer)
RE.CNT 24
             THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
```

(1) Anon; JAMA 2001, V285, P2486

ΑN

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ΤI

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CC

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RE

- (2) Arita, Y; Biochem Biophys Res Commun 1999, V257, P79 CA
- (3) Arita, Y; Circulation 2002, V105, P2893 CA
- (4) Bland, J; Lancet 1986, V1, P307 MEDLINE
- (5) Daimon, M; Diabetes Care 2003, V26, P2015 CA
- (6) Haluzik, M; Physiol Res 2004, V53, P123 CA
- (7) Hansa, T; Clin Chem 1997, V43, P109
- (8) Hotta, K; Arterioscler Thromb Vasc Med 2000, V20, P1595 CA
- (9) Hotta, K; Diabetes 2001, V50, P1126 CA
- (10) Kumada, M; Arterioscler Thromb Vasc Biol 2003, V23, P85 CA
- (11) Lindsay, R; Lancet 2002, V360, P57 CA
- (12) Lowry, O; J Biol Chem 1951, V193, P265 CA
- (13) Maeda, K; Biochem Biophys Res Commun 1996, V221, P286 CA
- (14) Maeda, K; Gene 1997, V190, P227 CA
- (15) Okamoto, Y; Circulation 2002, V106, P2767 CA
- (16) Okamoto, Y; Horm Metab Res 2000, V32, P47 CA
- (17) Ouchi, N; Circulation 1999, V100, P2473 CA
- (18) Ouchi, N; Circulation 2000, V102, P1296 CA
- (19) Ouchi, N; Circulation 2001, V103, P1057 CA
- (20) Ouchi, N; Hypertension 2003, V42, P231 CA
- (21) Pauli, S; Clin Chem 2004, V50, P219
- (22) Pischon, T; JAMA 2004, V291, P1730 CA
- (23) Ryo, M; Circ J 2004, V68, P975 CA
- (24) Tsukinoki, R; Lipids Health Dis 2005, V4, P27
- L5 ANSWER 2 OF 2 CA COPYRIGHT 2009 ACS on STN
- AN 141:310247 CA <<LOGINID::20090620>>
- ED Entered STN: 28 Oct 2004
- TI ***Latex*** reagent for ***adiponectin*** analysis, and ***adiponectin*** analysis method

.

- IN Tachikawa, Tetsuya; Akamatsu, Suguru; Sawai, Tokio; Nishimura, Fumiko
- PA Mitsubishi Kagaku Iatron, Inc., Japan; Otsuka Pharmaceutical Co., Ltd.
- SO PCT Int. Appl., 26 pp. CODEN: PIXXD2
- DT Patent
- LA Japanese
- IC ICM G01N033-53 ICS G01N033-543
- CC 9-10 (Biochemical Methods)

FAN.CNT 1

	PATENT NO.					KIND		DATE		APPLICATION NO.						DATE			
ΡI	WO	2004086040				A1		20041007		WO 2004-JP4083						20040324			
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			ΤJ,	TM,	TN,	TR,	TΤ,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW	
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	_	2004223553				B2 20081204													
	_	. 2520438				A1		20041007			_	A 2004-2520438				20040324			
	EP	1607	742			A1		2005	1221		EP 2	004-	7230	44		2	0040	324	

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    US 20070037207 A1 20070215 US 2005-550324 20050923
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PRAI JP 2003-80763
                             20030324
                       W
                             20040324
    WO 2004-JP4083
CLASS
PATENT NO.
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WO 2004086040 ICM G01N033-53
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                IPCR G01N0033-53 [I,C*]; G01N0033-53 [I,A]; G01N0033-543
                      [I,C*]; G01N0033-543 [I,A]; G01N0033-68 [I,C*];
                       G01N0033-68 [I,A]
                ECLA G01N033/543D; G01N033/68V
AU 2004223553
                      G01N0033-53 [I,C*]; G01N0033-53 [I,A]; G01N0033-543
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                       G01N0033-68 [I,A]
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                       [I,C*]; G01N0033-543 [I,A]; G01N0033-68 [I,C*];
                       G01N0033-68 [I,A]
                ECLA G01N033/543D; G01N033/68V
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CA 2520438
                IPCR G01N0033-53 [I,C*]; G01N0033-53 [I,A]; G01N0033-543
                      [I,C*]; G01N0033-543 [I,A]; G01N0033-68 [I,C*];
                      G01N0033-68 [I,A]
                ECLA G01N033/543D; G01N033/68V
                IPCI G01N0033-53 [ICM, 7]; G01N0033-543 [ICS, 7]
EP 1607742
                IPCR G01N0033-53 [I,C*]; G01N0033-53 [I,A]; G01N0033-543
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                       G01N0033-68 [I,A]
                ECLA G01N033/543D; G01N033/68V
US 20070037207 IPCI G01N0033-53 [I,A]; G01N0033-551 [I,A]
               NCL 435/007.100; 436/524.000
    A ***latex*** reagent for ***adiponectin*** anal. is provided,
AB
    which comprises a suspension of ***latex*** particles carrying a
    substance (e.g., anti- ***adiponectin*** ***polyclonal***
      ***antibody*** ) capable of specifically binding with
***adiponectin***
    . Also provided is a method for ***adiponectin*** anal., which
    comprises: (1) a step for obtaining a biol. liq. potentially contq.
      ***adiponectin*** ; and (2) a step for contacting the biol. liq.
obtained
    in the step (1) as it is with a suspension of ***latex*** particles
    carrying a substance capable of specifically binding with
      \ensuremath{^{***}}\xspace and optically analyzing the resultant mixt. to det.
    the degree of agglutination of the ***latex*** particles. According
    to this ***latex*** reagent for ***adiponectin*** anal. and this
      ***adiponectin*** anal. method, it is not required to dil. or pretreat
а
    biol. liq. as a test sample beforehand, and the anal. is rapidly and
    conveniently performed without limiting a measurement facility.
     ***adiponectin*** analysis ***latex*** agglutination reagent
ST
    antibody
ΤТ
    Antibodies and Immunoglobulins
    RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
       ( ***adiponectin*** anal. method using ***latex*** agglutination
```

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immunoassay reagent)
ΙT
   Cytokines
    RL: ANT (Analyte); ANST (Analytical study)
        ( ***adiponectin*** ; ***adiponectin*** anal. method using
         ***latex*** agglutination immunoassay reagent)
ΙT
    Agglutination test
       ( ***latex*** ; ***adiponectin*** anal. method using
         ***latex*** agglutination immunoassay reagent)
ΙT
      ***Latex***
       (particles; ***adiponectin*** anal. method using ***latex***
       agglutination immunoassay reagent)
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
(1) A&t Corp; JP 20014624 A 2001
(2) Otsuka Pharmaceutical Co Ltd; EP 1033134 A 1999 CA
(3) Otsuka Pharmaceutical Co Ltd; US 6461821 B 1999 CA
(4) Otsuka Pharmaceutical Co Ltd; WO 9921577 A 1999 CA
=> d his
     (FILE 'HOME' ENTERED AT 18:53:42 ON 20 JUN 2009)
    FILE 'CA' ENTERED AT 18:54:00 ON 20 JUN 2009
L1
         5556 S APM1 OR ADIPONECTIN
           15 S L1 AND POLYCLONAL ANTIBOD?
L2
L3
            0 S L2 AND NATIVE(W)(APM1 OR ADIPONECTIN)
L4
            0 S L2 AND NATIVE
L5
             2 S L2 AND LATEX
=> logoff y
                                               SINCE FILE TOTAL ENTRY SESSION
COST IN U.S. DOLLARS
FULL ESTIMATED COST
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                                                             32.07
                                                              TOTAL
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
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CA SUBSCRIBER PRICE
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STN INTERNATIONAL LOGOFF AT 18:56:58 ON 20 JUN 2009